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CAVAN S.A. 5094

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MATERIAL SAFETY DATA SHEET

PRODUCT: INSTANT BITUMEN BONDING AGENT (CRS)

NOTE: Product is not to be heated.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CRS Cationic Emulsion
SUPPLIER: INSTANT BITUMEN
A.C.N. 008 428 979
9 C B Fisher Drive
CAVAN SA 5094

PRODUCT INFORMATION: PH: 08 8359 7777 FAX: 08 8359 4011

USE OR DESCRIPTION: Bitumen emulsion for road surfacing applications.

2. COMPOSITION/INFORMATION OR INGREDIENTS

Generic Composition:

INGREDIENTS CONSIDERED HAZARDOUS TO THE HEALTH

SUBSTANCE NAME	WT%	EU CLASSIFICATION
BITUMEN (PETROLEUM) (8052-42-4)	30-40	N/A
OXIDISED BITUMEN (PETROLEUM) (64742-93-4)	20-30	N/A
HYDROCHLORIDE SALT SOLUTION	30-40	XI;R36/38
KEROSENE (8008-20-6)	1-5	R10, XN;R22, XI;R38, R52/53

NOTES: EC Symbols: N/A – Not Applicable, XI – Irritant. XN – Harmful



3. HAZRADS IDENTIFICATION

EFFECTS OF

OVEREXPOSURE: Eye irritation, skin irritation. Swallowing may result in severe gastrointestinal. Respiratory irritation from excessive breathing of mists and/or vapours.

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water for at least 15 minutes. Obtain medical attention immediately.

SKIN CONTACT: Dry wipe the skin. Cleanse the contacted area with waterless hand cleanser or soap and water as soon as practicable. Remove contaminated clothing and launder before re-use. Discard shoes if the material has penetrated the inside surface.

INHALATION: Remove the victim from further exposure. If respiratory irritation, dizziness, nausea or unconsciousness occurs seek immediate medical assistance and call an ambulance. If breather has ceased use mouth to mouth resuscitation.

INGESTION: Do not induce vomiting. Give 1 to 2 glasses of water. Obtain medical attention or call an ambulance.

NOTE TO DOCTORS: Treat symptoms with reference to specific health effects identified above.

5. FIRE FIGHTING MEASURES

EXTINGUISHING

MEDIA: Dry chemicals, foam, CO₂

SPECIAL FIRE FIGHTING

PROCEDURES: Water or foam may cause frothing. Use water to cool fire exposed containers. Water spray may be used to flush spills away from exposures. Prevent run off from fire control or dilution from entering waterways, sewers or drinking water supply.

SPECIAL PROTECTIVE

EQUIPMENT: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

USUAL FIRE AND

EXPLOSION HAZARDS: Exposure to fire can generate toxic fumes. Flash point C (f) = 150 (302)(IP 36/ASTM D-92). Flammable limits – LEL NA. UEL NA.

NEPA HAZARD ID: Health: 2
Flammability: 1
Reactivity: 0

HAZOURDOUS DECOMPOSITION

PRODUCTS: Carbon Monoxide, HC1, Sulphur Oxides and H₂S.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION

PROCEDURES: Report large spills as required to the appropriate authorities such as the local environment health officer or fire brigade. If spills are likely to enter any drain, waterways or groundwater, contact the area water authority. In case of an accident on road spill, contact the police and fire brigade and, if appropriate, the area water authority.

PROCEDURE IF MATERIAL IS

RELEASED OR SPILLED: For large spills: contain the material and pump back to holding tank for later disposal. Absorb onto an inert oil binding material such as silica gel, sawdust and sand. Shovel into suitable, labelled containers. Dispose of at an appropriate licensed waste disposal site in accordance with current applicable laws and regulations and product characteristics at the time of disposal.

ENVIRONMENT

PRECAUTIONS: Prevent spills from entering storm sewers or drains and from contact with soil.

PERSONAL

PRECAUTIONS: See section 8.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling. Irritation may occur if the product is not removed from the skin. Avoid inhalation of the vapours or mists.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidising agents of combustible material.
See section 15 for regulatory information when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area.

RESPIRATORY

PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation. Approved respiratory protective equipment must be used when vapours or mist concentrations exceed applicable standards.

EYE PROTECTION: Chemical type goggles should be worn if contact may occur.

SKIN PROTECTION: Impervious gloves should be worn if contact may occur. Protective and sensible work clothing must be worn i.e. long sleeved/legged overalls, long sleeved shirts and pants and closed toed safety boots.

OTHER: Avoid prolonged, repeated skin contact and breathing in mists or vapours.

9. EXPOSURE LIMITS

SUBSTANCE NAME (CAS-NO)	SOURCE	TWA (PPM, MG/M3)
BITUMEN (PETROLEUM) (8052-42-4) FUMES	WNES	5
BITUMEN (PETROLEUM) (64742-93-4) FUMES	WNES	5

WNES = Worksafe Australia national exposure standard.

NOTE: Limits shown for guidance only. Follow applicable regulations.

10. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult the product data sheet for specific details.

Physical State:	EMULSION	Colour :	BROWN
Odour :	MILD	Odour Threshold:	N/A
pH:	2.5	Boiling Point:	100 C
Melting Point :	0 C	Flammability:	N/A
Auto Flammability:	N/A	Explosive Properties:	N/A
Oxidising Properties:	N/A	Vapour Pressure:	17MM HG (20 C)
Vapour Density:	N/A	Evaporation Rate:	N/A
Relative Density:	1.02	Solubility in Water:	EMULSIFIES
Viscosity at 40 C:	- 25 CPS	Viscosity at 100 C:	5 CPS
Pour Point:	< 5 C	Freezing Point:	0 C

N/A = Not Applicable

11. STABILITY AND REACTIVITY

STABILITY

(THERMAL, LIGHT, ETC): Stable

CONDITIONS TO

AVOID: Extreme Heat

INCOMPATIBILITY: Strong Oxidisers

HAZARDOUS DECOMPOSITION

PRODUCTS: CO, HCl, H₂S and Sulphur Oxides

HAZARDOUS

POLYMERISATION: Will not occur.

12. TOXICOLOGICAL DATA

ORAL TOXICITY:	Practically non-toxic (LD50 is greater than 2000 MG/K – based on testing of similar products and/or the components).
DERMAL TOXICITY:	Practically non-toxic (based on testing of similar products and/or the components).
INHALATION TOXICITY:	Not Established.
EYE IRRITATION:	Irritant (draize score > 15 but less than 35 – based on testing of similar products).
SKIN IRRITATION:	Irritant (primary irritation index > 3 but less than 5 – based on testing of similar products and/or their components).

OTHER TOXICOLOGICAL DATA

Some bitumen may contain polycyclic aromatic compounds (PAC'S). The exposure standard of 5 MG/M3 is believed to be adequate to protect workers exposed to bitumen fumes.

13. ECOLOGICAL INFORMATION

Environment fate and effects have not been established.

14. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	The product is suitable for processing by an approved recycling facility or can be disposed of at any licenced waste disposal site. Use of these method is subject to user compliance with applicable laws and regulations and consideration of product characteristics at any time.
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15. TRANSPORT INFORMATION

ACTDG:	Not Regulated
RID/ADR:	Not Regulated
IMO:	Not Regulated
IATA:	Not Regulated

16. REGULATORY INFORMATION

GOVERNMENT INVENTORY STATUS: All components comply with Australian AICS.

AUSTRALIAN CLASSIFICATIONS:

UN NUMBER: N/A

HAZXHEM CODE: N/A

DANGEROUS GOODS CLASS/SUBSIDIARY RISK: N/A

PACKAGING CLASS: N/A

AS1940 CLASS: N/A

POISONS SCHEDULE: N/A

WORKSAFE CLASSIFICATION: Irritant by Worksafe criteria

N/A = NOT APPLICABLE

EC LABELLING

SYMBOL: XI Irritant

RISK PHRASE(S): S2-24/25-37/39-26. Keep out of reach of children. Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

CONTAINS: Hydrochloride salts, Kerosene

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
BITUMEN, UNOXIDISED	8052-42-4	6
BITUMEN, OXIDISED	64742-93-4	3,6

Regulatory lists searched

1 = IARC 1 2 = IARC 2 3 = IARC 2B 4+ NTP CARC 5 = NTP SUS 6 = ACGIH

CARC = Carcinogen SUS = Suspected Carcinogen TERAT = Teratogenic

17. OTHER INFORMATION

This MSDS meets Worksafe Australia's accepted format requirements.

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